

p7.5tk

7.5 k promoter

Not I

Apa I

GGCCAAAATTGAAAACTAGATCTATTATTGCACCGGCGCCGGCCCATG GGC CCG GCC GCC AAC GGC GGA

Met Gly Pro Ala Ala Asn Gly Gly

tk coding sequence



pE/Ltk

synthetic E/L promoter

Not I

Apa I

GGCCAAAATTGAAATTTTATTTTTTTTGGGAATATAAAGCGGCGCCGGCCCATG GGC CCG GCC GCC AAC GGC GGA

Met Gly Pro Ala Ala Asn Gly Gly

tk coding sequence



1. p7.5tk

7.5K PROMOTER NOTI APAI
 5'- GGCCAAAAATTGAAAAACTAGATCTATTATTGACACGGCGCCGCATGGGCCCCGGCC -3'

2. p7.5/ATG0/tk

7.5K PROMOTER NOTI BAMHI SMAI PSTI
 5'- GGCCAAAAATTGAAAAACTAGATCTATTATTGACACGGCGCCGCGTGGATCCCCCGGGCTGCAGGAA

TRANSLATION		TRANSCRIPTION	
SALI	STOP CODONS	STOP CODONS	STOP SIGNAL
TTCGATATCAAGCATTATCGATACCGTCGACCTCGAGGGGGGGCCTAACTAAATTTGTTTGT			

APAI

GGGCCCCGGCC -3'

FIG. 2

3. p7.5/ATG1/tk

	START			
7.5K PROMOTER	NOTI	CODON BAMHI	SMAI	PSTI
5'- GGCCAAAATTGAAAACCTAGATCTATTTATTGCACGGCGGCCGCCATG ^{GTGGATCCCCCGGGCTGCAGGAA}				

	TRANSLATION	TRANSCRIPTION
SALI	STOP CODONS	STOP SIGNAL
TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGCCCTAACTAAATTTGTTTTGT		

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APAI

GGGCCCCGGCC -3'

FIG. 2 (cont.)

4. p7.5/ATG2/tk

		START	
7.5K PROMOTER	NOTI	CODON	BAMHI SMAI PSTI
5'-GGCCAAAATTGAAAAGTAGATCTATTATTGCACGGCGCGCCATGAGTGGATCCCCCGGGCTGCAGGAA			

TRANSLATION TRANSCRIPTION

SALI STOP CODONS STOP SIGNAL

TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGGCCTAACTAAATTTGTTTGT

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APAI

GGGCCCCGGCC-3'

FIG. 2 (cont.)

5. p7.5/ATG3/tk	START			
	7.5K PROMOTER	NOTI	CODON	BAMHI SMAI PSTI
5'- GGCCAAAATTGAAAACTAGATCTATTATTGCACGGGGCGGCCA TGACGTGGATCCCCCGGGCTGCAGGAA				
	SALI	TRANSLATION	STOP CODONS	TRANSCRIPTION
				STOP SIGNAL
TTCGATATCAAGCTTATCGATACCGTCGACCTCGAGGGGGGCCCTAACTAAATTTGTTTGT				
APAI				5/18
GGGCCCCGGCC -3'				

FIG. 2 (cont.)

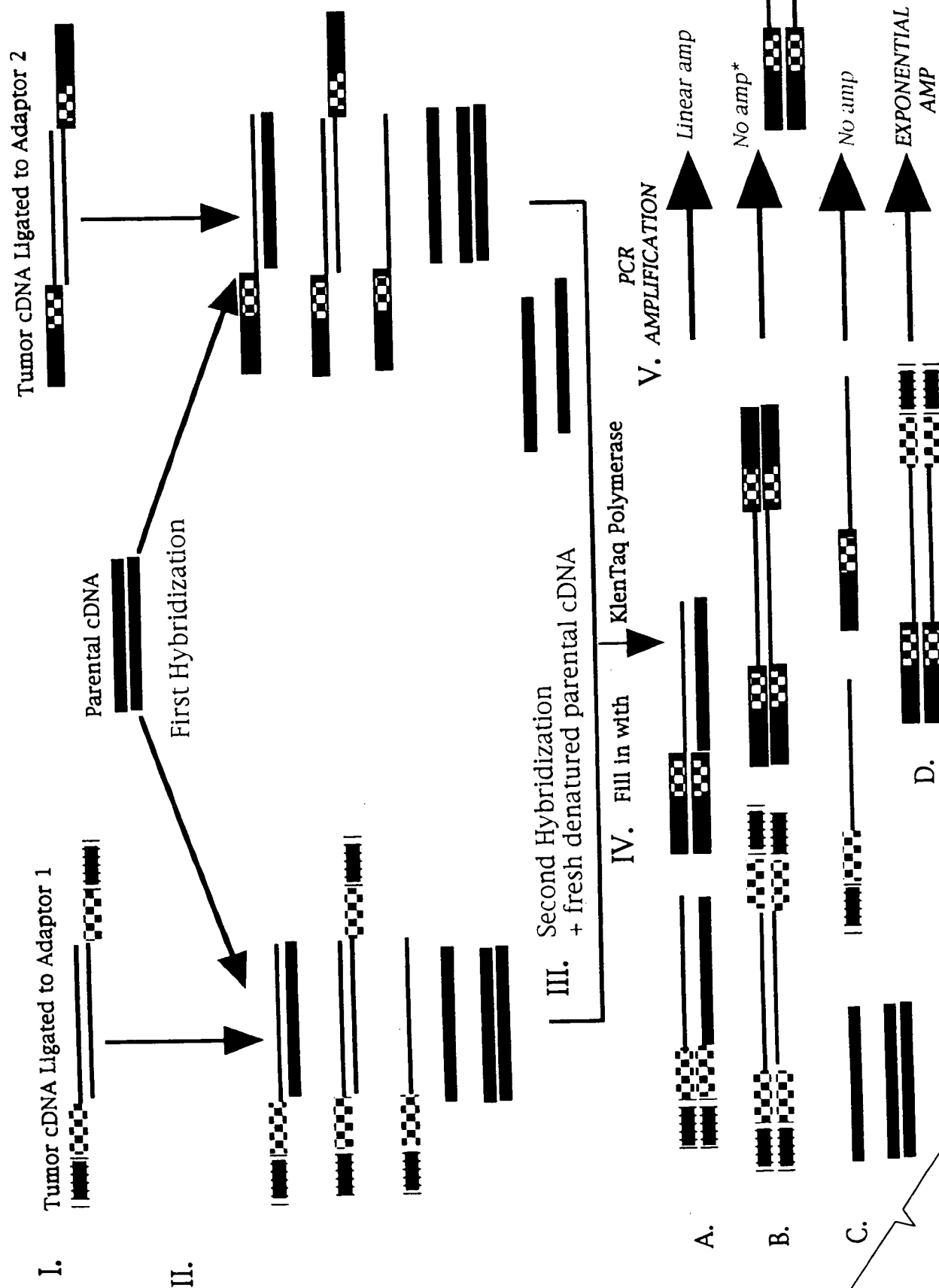


FIG. 3

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SUBTRACTED
100 bp LADDER

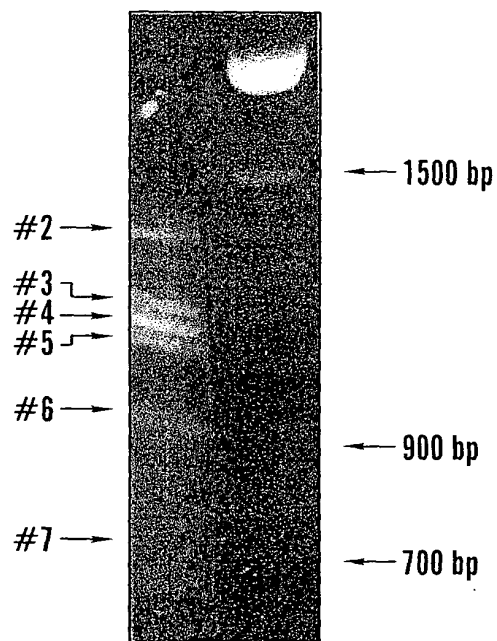


FIG. 4

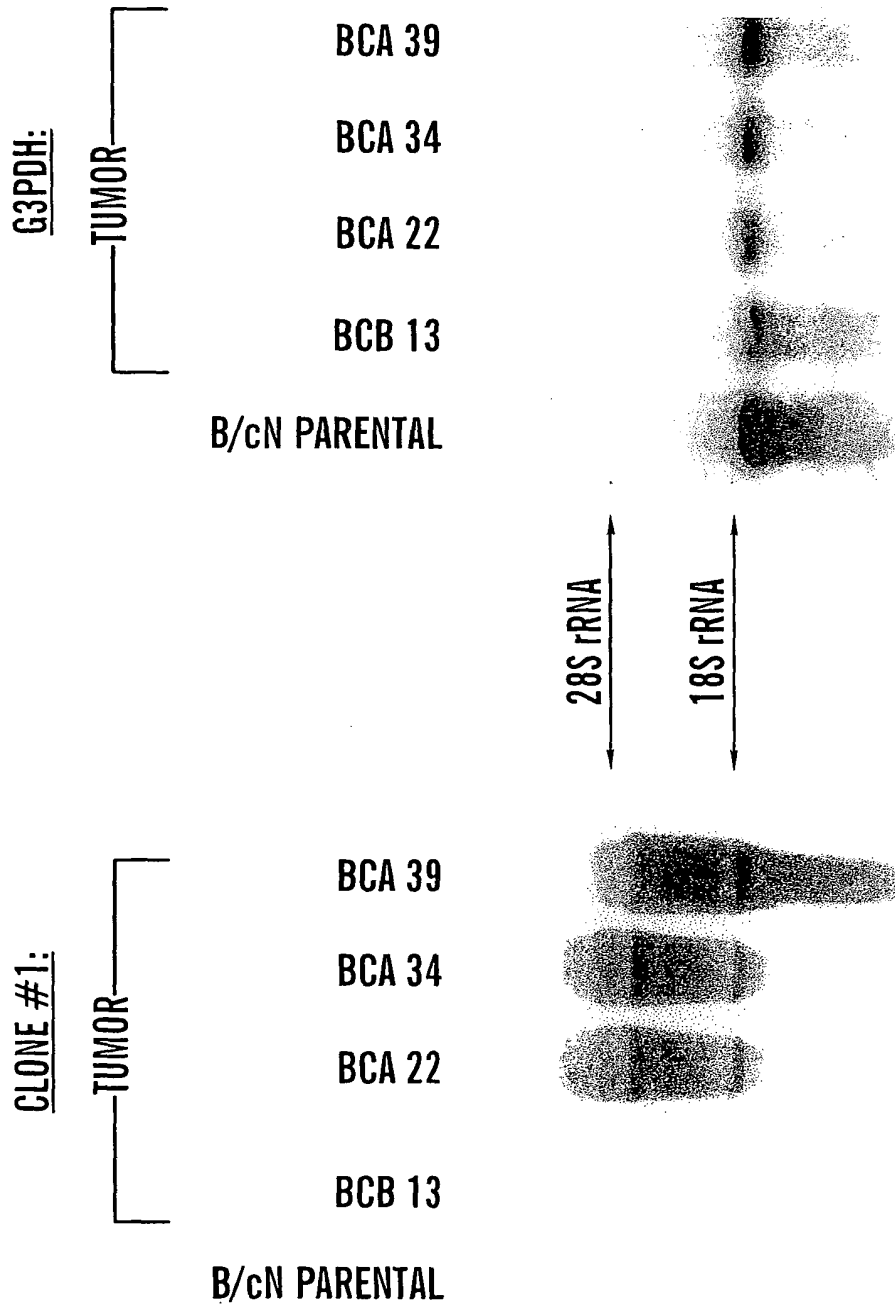


FIG. 5

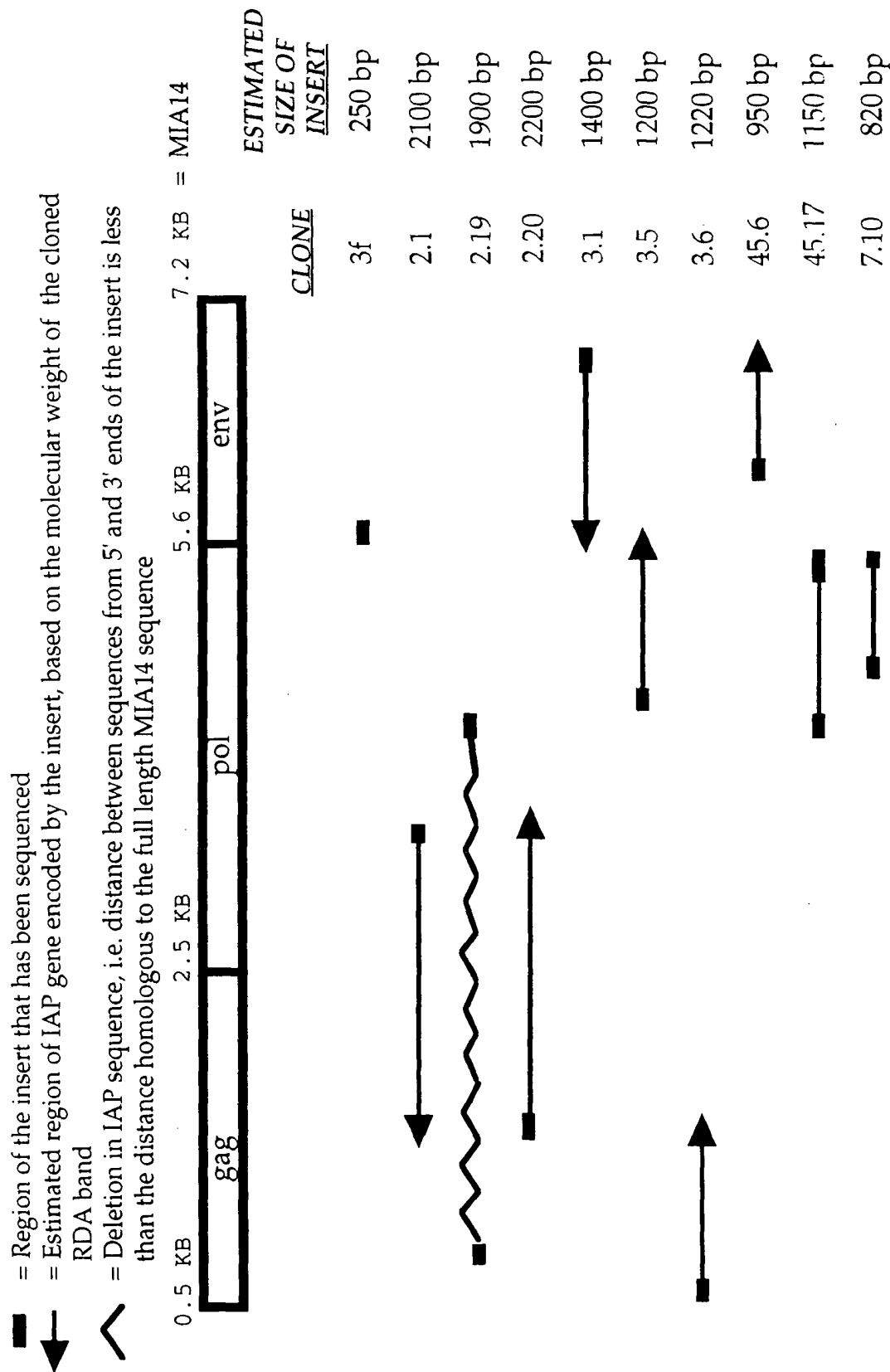


FIG. 6

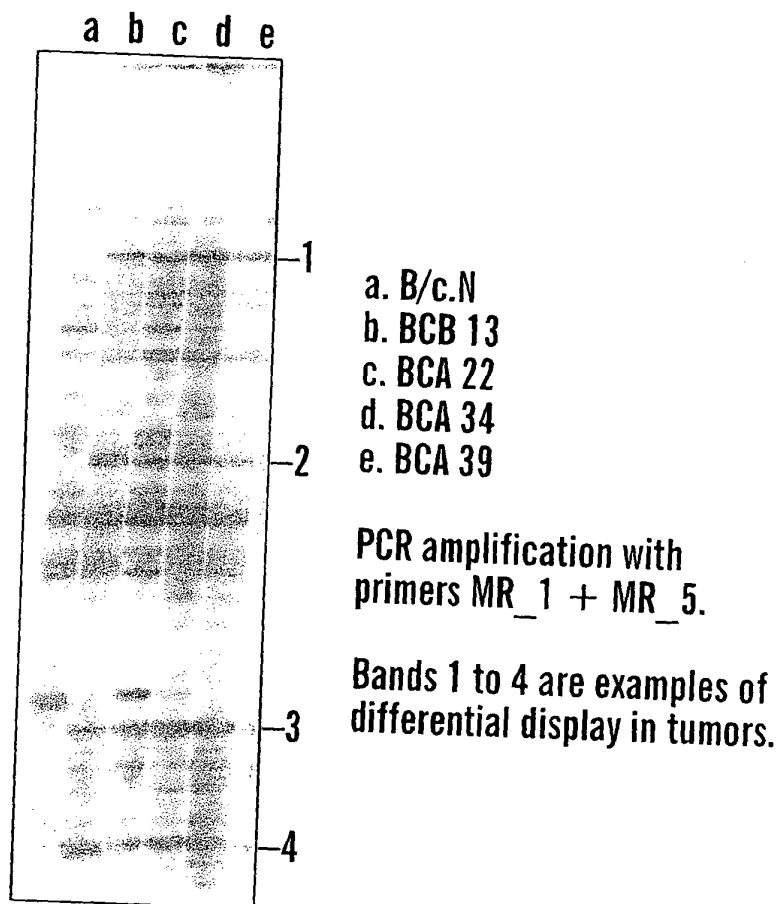


FIG. 7

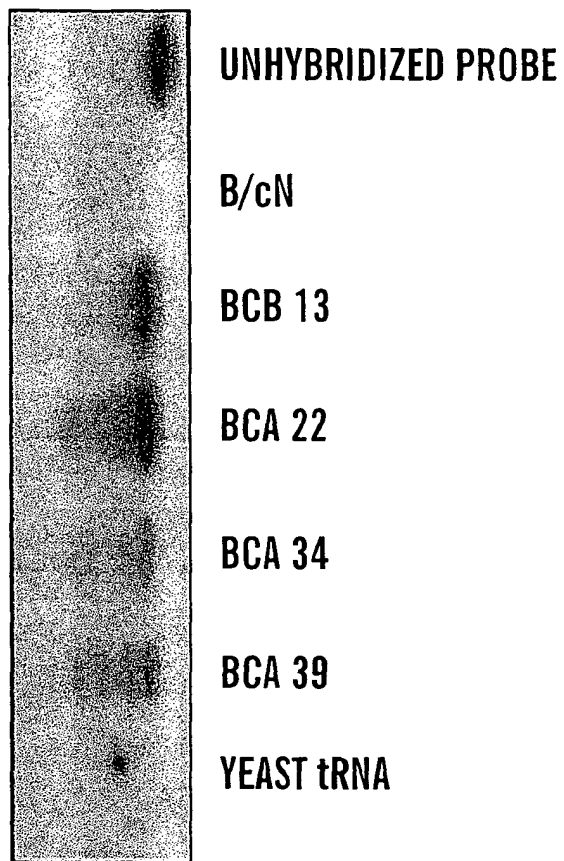


FIG. 8A

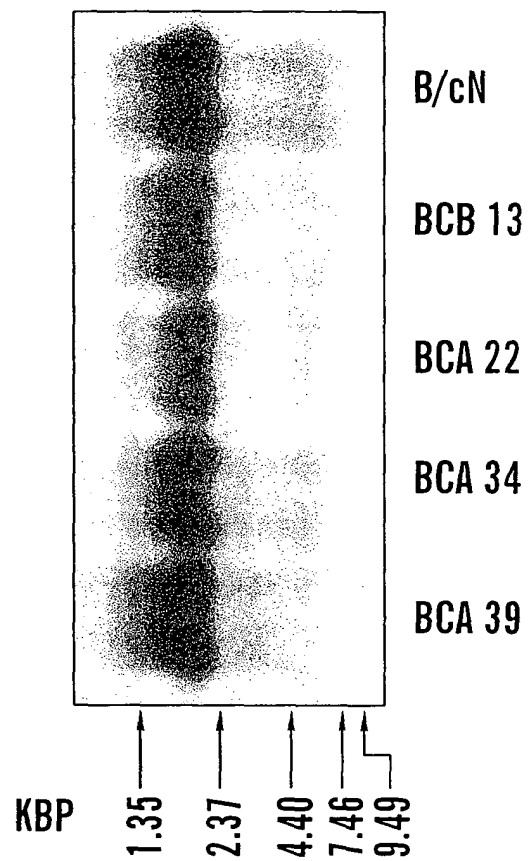


FIG. 8B

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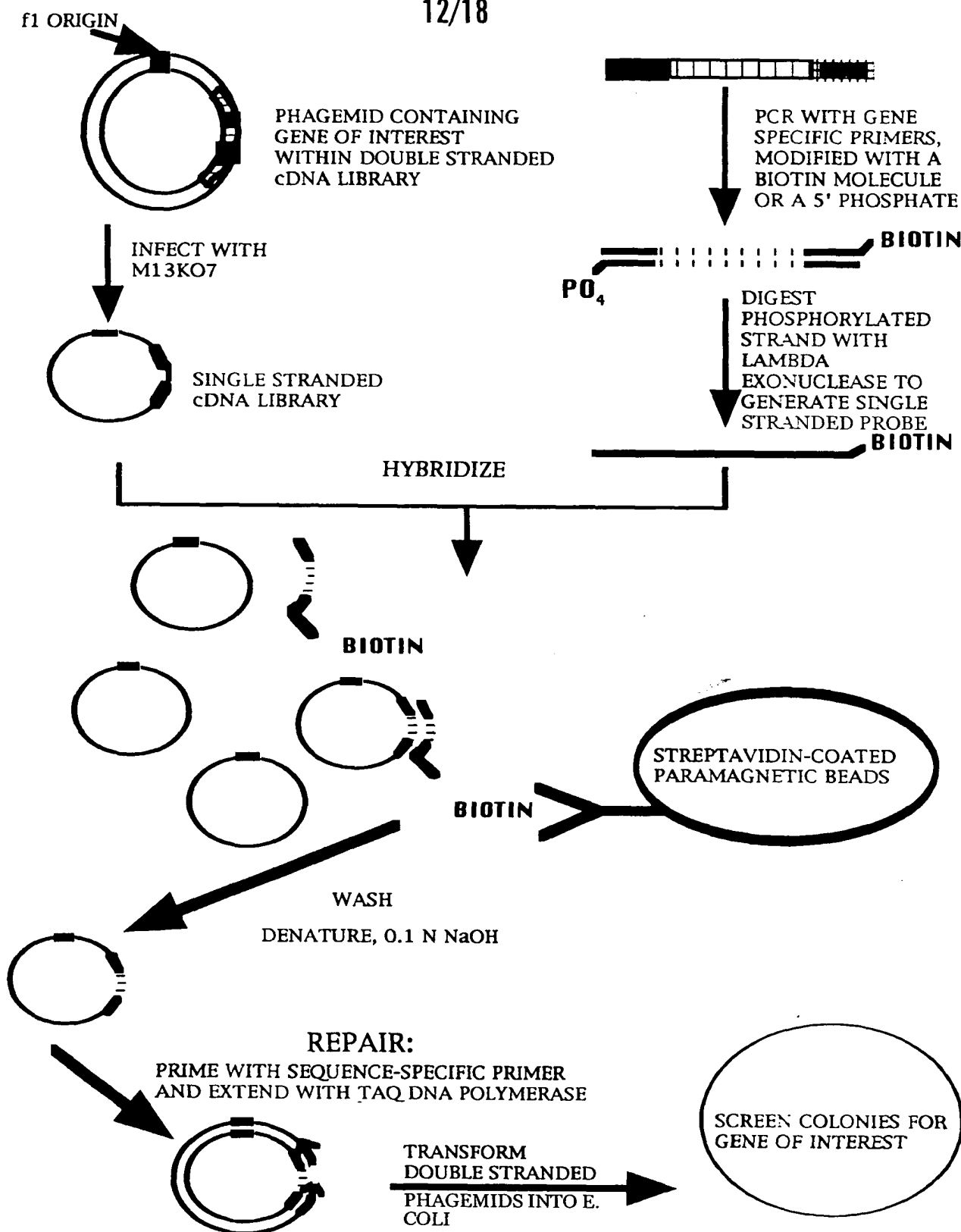
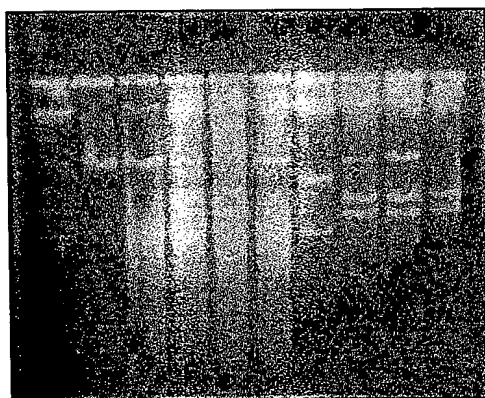


FIG. 9

Apal

NotI

λ WR WR vEL v7.5 vNot/tk WR vEL v7.5 vNot/tk



WR

▲
NotI

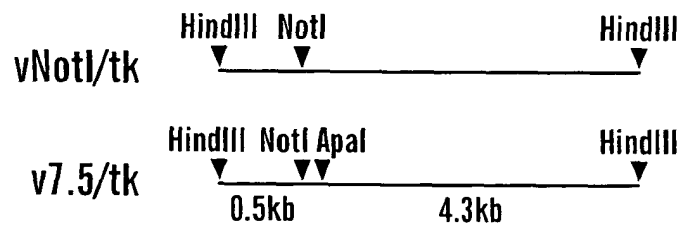
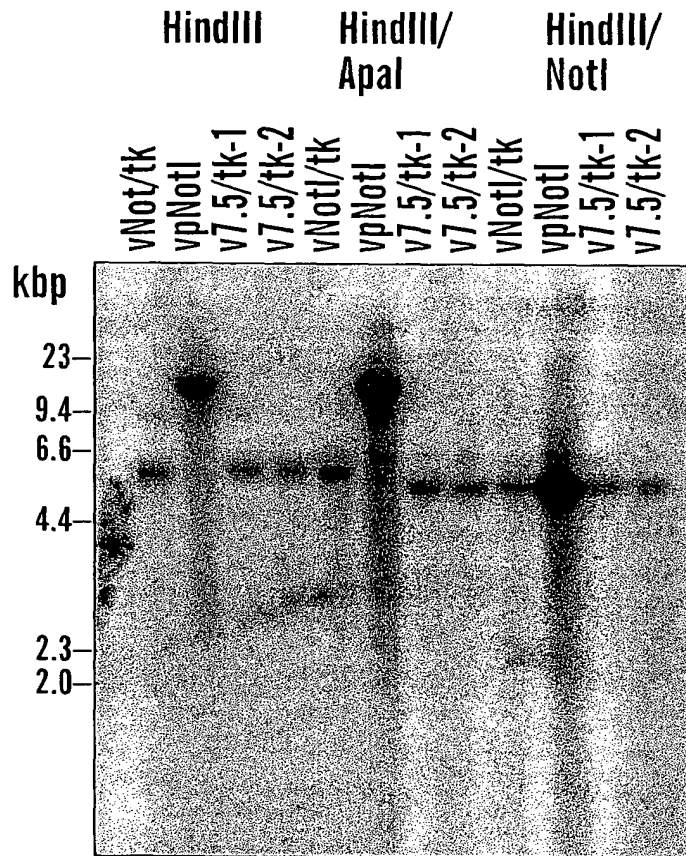
vNotI/tk

▲
NotI

vEL/tk
v7.5/tk

▲▲
NotI Apal

FIG. 10

**FIG. 11A**

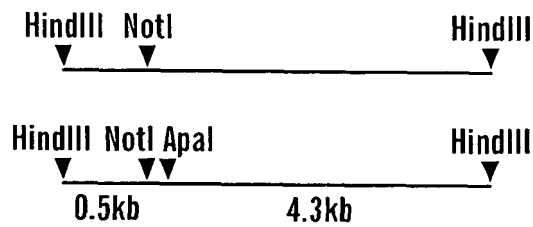
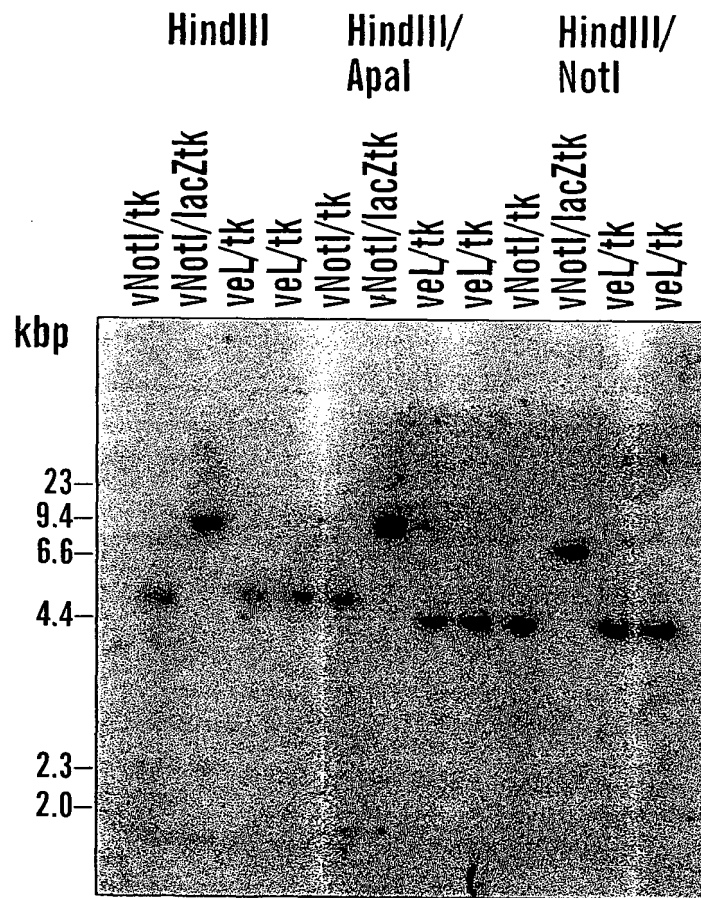


FIG. 11B

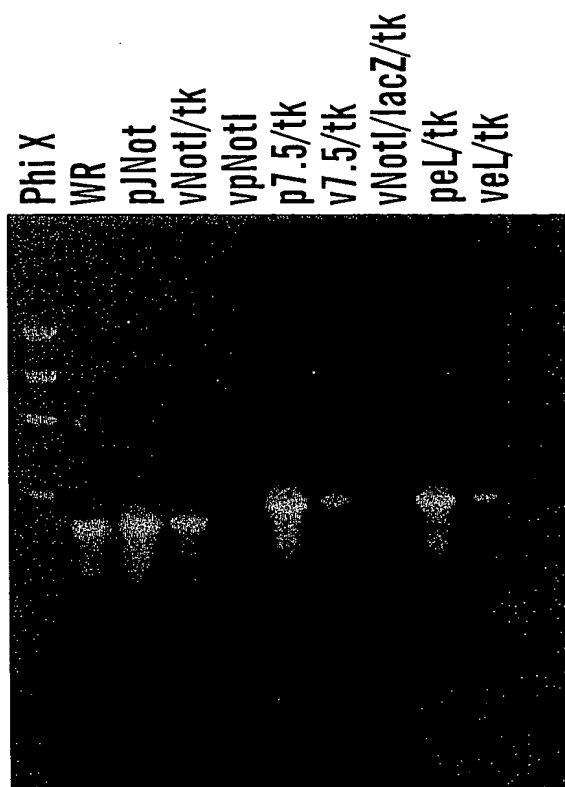
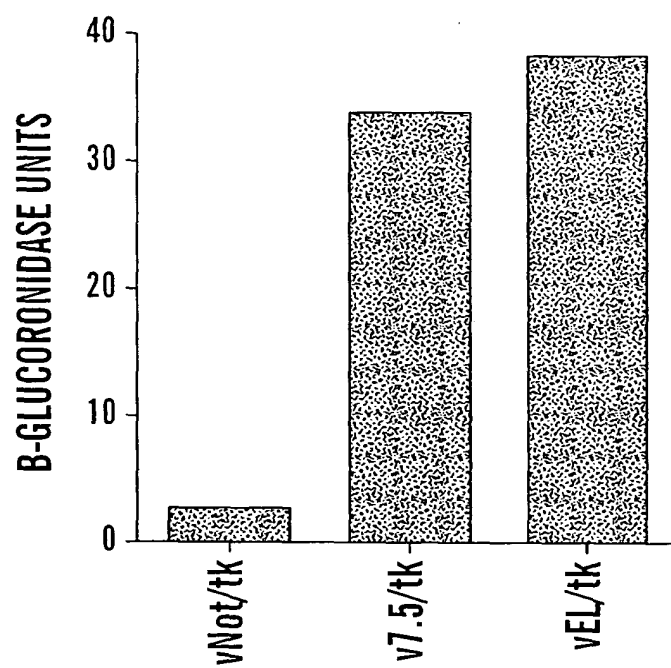


FIG. 12

**FIG. 13**

